

SEMENCHEV, Aleksandr Vladimirovich; REUT, M.A., red.; BUL'DYAYEV,
N.A., tekhn. red.

[Pile drivers for sinking reinforced-concrete piles] Ma-
shiny dlia pogruzheniia v grunt zhelezobetonnykh svai. Mo-
skva, Gosenergoizdat, 1963. 46 p. (Biblioteka elektromon-
tera, no.95) (MIRA 16:10)
(Piling (Civil engineering))--Equipment and supplies)

SEMENCHEV, G.I., fel'dsher (g.Krasnogorovka Stalinskoy oblasti)

Ways of preventing tuberculosis in children. Fel'd. i akush. no.9:
40-42 S 154. (MLRA 7:11)

(TUBERCULOSIS, prevention and control
in child.)

SEMENCHEV, G.I., Fel'dsher (gorod Krasnogorovka Stalinskoy oblasti)

Prevention of silicosis. Fel'd. 1 akush. no. 8:36-39 Ag '55.
(SILICOSIS, prev. and control (MLRA 8:10)
in Russia)

SEMENCHEV, G.I., fel'dsher (f. Krasnogorovka)

How "The question and answer board" is being used in the
sanitation campaign. Fel'd. 1 akush. 21 no.2:43-44 F. 156. (MIRA 9:5)
(HEALTH EDUCATION)

PUPYNIN, V.N., dotsent, kand.tekhn,nauk; SEMENCHINSKIY, G.V., inzh.

A simple protection system for a 27.5 kv. contact network with
commensurable load and short-circuit currents. Trudy MIIT
no.144:106-113 '62. (MIRA 15:10)

(Electric railroads--Wires and wiring)

(Electric railroads--Current supply)

REVUTSKIY, Ye.L.; EYDEL'MAN, F.M.; SEMENCHUK, D.D. (Kiyev)

Study of proteins and mucoproteins of the gastric juice by paper electrophoresis. Vrach.delo no.2:42-44 P '63. (MIRA 16:5)

1. Otdel klinicheskoy fiziologii Instituta fiziologii imeni A.A. Bogomol'tsa AN UkrSSR.
(PAPER ELECTROPHORESIS) (PROTEINS) (GASTRIC JUICE)

SEMENCHUK, Dmitriy Iosifovich; KORA, M., redaktor; LEVCHENKO, O., tekhnichniy redaktor

[Production capacities of industrial enterprises and methods for their efficient use] Vyrobnychi potuzhnosti promyslovykh pidpriemstv i shliakhy ikh ratsional'noho vykorystannia. Kyiv, Derzh.vyd-vo polit.lit-ry URSR, 1957. 46 p. (MLRA 10:10)
(Russia--Industries)

REVUTSKIY, Ye.L. [Revuts'kiy, IE.L.]; EYDEL'MAN, F.M. [Eidel'man, F.M.];
SEMENCHUK, D.D.

Proteins and mucoproteins of the gastric juice in various forms
of chronic gastritis. Fiziol. zhur. [Ukr.] 9 no.6:775-780 N-D '63.
(MIRA 17:8)

1. Otdel klinicheskoy fiziologii Instituta fiziologii im.
Bogomol'tsa AN UkrSSR, Kiyev.

L 15124-65 EWT(m) DIAAP/SSD/AFWL DM
ACCESSION NR: AP4045337

S/0089/64/017/003/0219/0220

AUTHOR: Bochagov, E. A. ; Vasil'yev, S. S. ; Semenchuk, G. G. ; Solyakin, G. Ye.

TITLE: Fission of U^{238} nuclei by alpha-particles of 26.5 Mev energy

SOURCE: Atomnaya energiya, v. 17, no. 3, 1964, 219-220

TOPIC TAGS: nuclear fission, U^{238} fission, -particle, compound nucleus, thermal neutron

ABSTRACT: B. A. Bochagov has shown in a previous work that the dependence of the total kinetic energy E_n of the fragments on the mass ratio $R (\geq 1.3)$ in fission by thermal neutrons and in spontaneous fission, is described by the formula

$$E_n = aA' - (R + 1)b$$

where $A' = A - \nu$, A is mass number of the compound nucleus, ν - average number of prompt neutrons, a and b are coefficients, equal 1.07 and 33.3 Mev, respectively. The analysis of data on photofission of U^{238} and Th^{232} , and of fission of U^{235} and Th^{232} by neutrons of 14 Mev energy showed that the formula is valid in the first case, whereas b is smaller in the second case. The author suggested

Card 1/2

15124-65

ACCESSION NR: AP4045337

that this is connected with the linear momentum contributed by the bombarding particle. In the present work, the kinetic energy of the fragments of ^{238}U -nucleus split by α -particles of 26.5 Mev, that is, of much larger momentum, was measured. The experiments were conducted with the cyclotron of the Institute for Nuclear Physics MGU. The coefficient b was found to be actually smaller, thus supporting the author's suggestion. The authors are grateful to A. P. Komana, Yu. A. Vorob'ev, I. B. Teplov, and A. F. Tulinov for help. Orig. art. has: 1 figure

ASSOCIATION: None

SUBMITTED: 17Jan64

ENCL: 00

SUB CODE: NP

NO REF SOV: 004

OTHER: 004

Card 2/2

BOCHAGOV, B.A.; VASIL'YEV, S.S.; SEMENCHUK, G.G.; SOLYAKIN, G.Ye.

Energy characteristics of fragments resulting in the fission of Th²³²
and U²³⁸ nuclei by charged particles. IAd. fiz. 1 no.3:461-470 Mr
'65. (MIRA 18:5)

1. Fiziko-tekhnicheskij institut im. A.F.Ioffe AN SSSR i Institut
yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.

44979

27 1220

S/858/62/000/001/001/013
D296/D307

27.2402

AUTHORS: Sukhomlinov, B. F., Merenov, V. V. and Semenchuk, N. N.

TITLE: Electrophoretic studies on the hemoglobin of dogs exposed to penetrating radiation

SOURCE: L'vov. Universytet. Problemna lyaboratoriya radiobiologiyi. Biologicheskoye deystviye radiatsii, no. 1, 1962, 3-7

TEXT: The authors studied the electrophoretic mobility of hemoglobin in dogs exposed to x rays, and also the adsorption curves of oxyhemoglobin in the visible part of the spectrum. Acute radiation sickness was produced in dogs of 6 - 12 kg weight by a single exposure to a dose of 600 - 800r from a distance of 1 m, at a rate of 14r/min. Electrophoresis of the hemoglobin was carried out repeatedly in agar gel by the method of Monnier and Fischer. The adsorption curves of the hemoglobin solution were studied by means of a spectrophotometer, and the amino acid composition of the hemoglobin was established by chromatography. The hemoglobin was in-
Card 1/3

Electrophoretic studies on ...

S/858/62/000/001/001/013
D296/D307

ASSOCIATION: L'vovskiy nauchno-issledovatel'skiy institut pere-
livaniya krovi i laboratoriya radiobiologii L'vovs-
kogo universiteta (L'vov Scientific Research Insti-
tute of Blood Transfusion and Laboratory of Radio-
biology, L'vov University)

X

Card 3/3

SEMENCHUK, K.L., kand.veter. nauk; BABKIN, V.F., veterinarnyy vrach

Anaerobic infection in Japanese deer in the Askaniya-Nova Zoological
Garden. Nauch. trudy "Ask.-Nov." 13:120-122 '63. (MIRA 17:2)

SUKHOMLINOV, B.F.; MEREMOV, V.V.; SEMENCHUK, N.N.

Electrophoretic study of the hemoglobin of dogs subjected to penetrating radiation. Biol. deis. rad. no.1:3-7'62.

(MIRA 16:6)

1. L'vovskiy nauchno-issledovatel'skiy institut perelivaniya krovi i laboratoriya radiobiologii L'vovskogo universiteta.

(HEMOGLOBIN) (X RAYS—PHYSIOLOGICAL EFFECT)

(ELECTROPHORESIS)

KAZNACHEY, B.Ya.; PODGAYSKAYA, L.N.; PONOMAREVA, O.V.; SEMENCHUK, O.V.

Observations on the phonorecord error "displacement of grooves."
Trudy VNAIZ no.5:110-115 '59. (MIRA 15:4)
(Phonorecords)

WILLIAMS, A. S., 1973, 1974

He and drif' worked with the SH242 enter-loader. Ugol' Ukr.
15-10-56 6-167

NO. 10:6-5 9 165.

(EPA 17:4)

1. Zhukhta No.8 "Velikomestovskaya" izdat. "Sovetskoyradudel".

GROMOVOY, Pavel Semenovich, kand.sel'skokhoz.nauk; SEMENCHUK, S.I.,
red.; PETROPOL'SKAYA, N.Ye., red.; CHEREMISOV, M.F., tekhn.
red.; SHCHERBAKOV, A.I., tekhn.red.

[Stall and field shelter management of dairy cattle] Stoilovo-
lagernoe sodержanie molochnogo skota. Kuibyshev, Kuibyshevskoe
knizhnoe izd-vo, 1956. 86 p. (MIRA 12:8)
(Dairy cattle--Feeding and feeds)

BOLDYREVA, Klavdiya Vasil'yevna, svinarka. Prinimel uchastiye LUK'YANOV,
N.V., zootekhnik. TRET'YAKOV, G.P., red.; SEMENCHUK, S.I.,
red.; YASHEN'KINA, Ye.A., tekhn.red.

[Lowering the cost of pork production] Snizhaem zatraty na pro-
izvodstvo svininy. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo,
1960. 11 p. (MIRA 14:1)

1. Sovkhoz "Pioner" (for Boldyreva).
(Swine)

NENASHEVA, Nina Ivanovna, ptichnitsa. Prinimal uchastiye PETROV, A.Ya.,
zootekhnik. ZOLOTUKHIN, B.V., red.; SEMENCHUK, S.I., red.;
YASHEN'KINA, Ye.A., tekhn.red.

[Producing 1,000,000 eggs per year] 1,000,000 laits v god.
Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1960. 14 p.
(MIRA 14:1)

1. Kuybyshevskaya ptitsefabrika (for Nenasheva).
(Kuibyshev--Eggs--Production)

FOMINA; Ol'ga Pavlovna, doyarka; KONDRAT'YEV, A.F., red.; SEMENCHUK, S.I.,
red.; YASHEN'KINA, Ye.A., tekhn.red.

[We shall obtain 5,000 kilograms of milk per cow per year] Bidat
5000 kilogrammov moloka ot korovy v god. Kuibyshev, Kuibyshevskoe
knizhnoe izd-vo, 1960. 18 p. (MIRA 14:1)

1. Kolkhoz imeni VKP(b) Koldybenskogo rayona (for Fomina).
(Dairying)

STEPANOV, Vasilii Titovich. Prīnimal uchastiye TYUKINA, N.N., zootekhnik.
TRET'YAKOV, G.P., red.; SEMENCHUK, S.I., red.; YASHEN'KINA, Ye.A.,
tekhn.red.

[Ways of increasing productivity in sheep raising] Put' povysheniia
produktivnosti ovtsevodstva. Kuibyshev, Kuibyshevskoe knizhnoe
izd-vo, 1960. 12 p. (MIRA 14:2)

1. Chaban kolkhoza "Put' Il'icha," Alekseyevskogo rayona (for
Stepanov).

(Sheep)

NENASHEVA, Nina Ivanovna, ptichnitsa; ZOLOTUKHIN, B.V., red.; SEMENCHUK, S.I., red.; YASHEN'KINA, Ye.A., tekhn. red.

[Million eggs in a year] 1000 000 iaits v god. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1960. 14 p. (MIRA 14:9)

1. Kuybyshevskaya ptitsefabrika (for Nenasheva).
(Kuybyshev Province—Eggs—Production)

IVANNIKOV, V.F., nauchnyy sotr.; PAKHOMOV, A.Ya., nauchnyy sotr.; UCHAYKIN, V.D., nauchnyy sotr.; FOMIN, I.P., nauchnyy sotr.; TIMOFEYEV, D.T., nauchnyy sotr.; TRET'YAKOV, G.P., red.; SEMENCHUK, S.I., red.; YASHCHEN'KINA, Ye.A., tekhn. red.

[Improve cultivation practices and increase sugar beet yields] So-
vershenstvovat' agrotekhniku, povyshat' urozhai sakharnoi svekly.
Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1960. 52 p.

(MIRA 14:10)

1. Kinel'skaya selektsionnaya stantsiya Kuibyshevskogo sel'sko-
khozyaystvennogo instituta (for Ivannikov, Pakhomov, Uchaykin, Fo-
min, Timofeyev)

(Sugar beets)

SEMENCHUK, S.I., red.; YASHEN'KINA, Ye.A., tekhn. red.

[Make way for the queen of the fields!] Koroleve polei -
shirokuiu dorogu. Kuibyshev Kuibyshevskoe knizhnoe izd-vo,
1960. 68 p. (MIRA 14:9)

(Corn (Maize))

GROMOVOY, Pavel Semenovich; KALMANKIN, Fedor Petrovich; KOZEYEV, Vasiliy
Ivanovich; SEMENCHUK, S.I., red.; YASHEN'KINA, Ye.A., tekhn. red.

[What one should know about obtaining high corn yields] Chto
nuchno znat' dlia vyrashchivaniia vysokikh urozhaev kukuruzy. Izd.2.,
ispr. i dop. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1960. 102 p.
(MIRA 14:9)

(Corn (Maize))

SEMENCZUK, A.

G-2

POLAND/Organic Chemistry - Synthetic Organic Chemistry.

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14418.

Author : Urbanski T., Semenczuk A.

Inst : Polish Academy of Sciences.

Title : On Preparation of N,2,4,6-Tetranitromethylaniline by the
Action of Nitric Acid on Dimethylaniline.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 6, 649-651.

Abstract: N,2,4,6-tetranitromethylaniline (I) was prepared by action of HNO_3 on dimethyl aniline (II) at a ratio of HNO_3 to II of not less than 35-40 : 1. 6 g of II are dissolved in 280 g HNO_3 (d 1.40) at 2-7° with vigorous stirring, after 15 minutes (2°) heated to 40-50°, heating is then discontinued for 30 minutes, until the violent evolution of nitrogen oxides has subsided, the solution is then heated to 80° and then to 90° for 1 hour after which 50 ml of water (10°) are added, and after several hours I is filter-

Card : 1/2

Distr: 4E2c(1)

7

2 May
1

Preparation of N,2,4,6-tetranitromethylaniline with fuming nitric acid in the presence of inert organic solvents. A. Semeńczuk and T. Urbaniski (Wojskowa Akad. Tech., Warsaw). *Bull. acad. polon. sci., Ser. sci., Chim. géol. et géograph.* 6, 309-11(1958)(in English).—Dimethylaniline (I) was nitrated to N,2,4,6-tetranitromethylaniline (II) by HNO₃ alone, in solns. of low boiling solvents (III) such as CH₂Cl₂, CCl₄, CHCl₃, or high boiling solvents (IV) such as C₂H₅Cl. To 75 g. HNO₃ (d. 1.52) in 75 g. III, 6 g. I in 75 g. III was added dropwise with intermittent vigorous stirring, at 2-7°; the mixt. was warmed to 40° then to the b.p. of III when NO₂ evolution ceased, then to 80°, and kept at this temp. until an orange color appeared. H₂O (50 ml.) pptd. II in 98% yield. When IV was used it was decanted after dila. with H₂O; the yield was 92%. J. Stecki

SEMENCZUK, A.

Distr: 4E3d/4E3b

✓ Tetryl and other aromatic amines. Skarb Państwa, Ministerstwo Obrony Narodowej (by A. Semenczuk and T. Urbański). Pol. 41,964, June 2, 1958. A safe method of prep. tetryl is described, based on the nitration of Me₂NPh (I) with HNO₃ in a solvent inert towards the latter at 80°. Suitable solvents are CH₂Cl₂, CHCl₃, CCl₄, CHCl₂CHCl₂, and aliphatic hydrocarbons. For example, an 8% tetryl soln. in CHCl₃ is introduced with const. stirring to a 60% I soln. (d. = 1.51) in CHCl₃ at <20°. The I:HNO₃ ratio should be 1:12. The mixt. is heated at 30°. When the evolution of N oxides stops, the temp. is raised to >60°, total nitration takes place, and CHCl₃ is distd. off. The remaining soln. of tetryl in I is dild. with 3 parts H₂O and cooled. Tetryl of high purity crystallizes, m. 120-30°. The total yield is 98%. When CCl₄ is used as a solvent, the I:HNO₃ ratio should be 1:16. K. Bojanowski

3
1-2-2(1/3)
2

gt

Distr: 4E3d

Nitration of dimethylaniline in the presence of acetic acid or acetic anhydride. T. Urbański and A. Semeńczuk (Wojsk. Akad. Tech., Warsaw). *Bull. acad. polon. sci., Ser. sci., Chim., Géol. et géograph.* 7, 91-2(1959)(in English); cf. CA 52, 19991c. — Dimethylaniline (8 g.) in 60 ml. CHCl_3 was slowly introduced to 60 ml. CHCl_3 , either 60 ml. Ac_2O or 60 ml. AcOH , and 60 ml. HNO_3 (d. 1.50), the temp. being kept below 0° . The mixt. was left aside until 40° was reached spontaneously and the temp. began to fall, warmed on a water bath to 80° , cooled after about 8 hrs, when it became light-orange, and dild. with 100 or 150 ml. H_2O to afford 90% N,2,4,6-tetranitromethylaniline, contrary to Orton (CA 1, 1274). Other proportions of HNO_3 and Ac_2O or AcOH gave poorer results. J. Stecki

4
1-BW(BW)
1-202(YB)

Distr: 4E3d

Preparation of tetryl by nitration of dimethylaniline with
fuming nitric acid in inert organic solvents. Antoni
Semenczuk and Tadeusz Urbański. *Biul. Wojskowej Akad.*
Techn. im. Jarosława Dąbrowskiego 8, No. 1, *Prace*
Chem. 105-8 (1959); cf. CA 52, 19991s.—PhNMe₂ (6 g.)
in 60 cc. MeNO₂ (I) was added dropwise to 60 cc. fum-
ing HNO₃ in 50 cc. I at about 0° with cautious stirring,
heated to 45° till N oxides were removed, and at 80° till the
soln. clarified completely. The mixt. was dild. with water,
shaken, the I phase washed repeatedly with water, and I

distd. partially under reduced pressure at about 60° to allow
the crystn. of 11.8 tetryl, m. 129°. A. Szafranski

4
1-BW(B:1)
2-Jof(NBKmap)
1

Distr: 4E3d

Nitration of dimethylaniline with a mixture of nitric acid and acetic anhydride or acetic acid in chloroform. Antoni Semeńczuk and Tadeusz Urbański. *Biul. Wojskowej Akad.*

5
1-CW(RW)

2-JAT(NE)(MAY)

Tech. im. Jarosława Dąbrowskiego 8, No. 1, *Prace Chem.*, 109-11(1959; cf. *CA* 52, 19991a.—PhNMe₂ (6 g.) in 60 cc. CHCl₃ was added dropwise to 60 cc. fuming HNO₃, 60 cc. Ac₂O and 60 cc. CHCl₃ at 0° with vigorous stirring and kept at room temp. When N oxides ceased to evolve, the mixt. was heated at 80° 8 hrs. till the soln. cleared completely, cooled and dild. with water. The tetryl produced (12.8 g.) m. 129° (Me₂CO).

A. Szafrański

Distr: 4E3d

✓ Preparation of dinitrotoluene by nitration of toluene with fuming nitric acid in chloroform. Antoni Semeńczuk, *Biul. Wojskowej Akad. Tech. im. J. Dąbrowskiego* (Warsaw) 8, No. 43, 95-100 (1959) (English and Russian summaries).— For the prepn. of dinitrotoluene (I) from toluene (II), 6 cc. II in 50 cc. CHCl_3 was added to 60 cc. HNO_3 (d. 1.51) dissolved in 50 cc. CHCl_3 with vigorous stirring at 5-10°. The mixt. was heated on a water bath until complete evapn. of CHCl_3 , then at 80° till the soln. clarified, H_2O (100 cc.) was added, the mixt. cooled, and the solid filtered off to give 90% I, crude product (mixt. of isomers with 2,4-isomer as main component), m. 40-62°. $p\text{-O}_2\text{NC}_6\text{H}_4\text{Me}$ (III) was added to 15 cc. fuming HNO_3 with continuous stirring at 18°, heated at 80° till the soln. clarified, and dild. with 50 cc. to give 95% (crude) I, m. 70° (MeOH). I was obtained from $o\text{-O}_2\text{NC}_6\text{H}_4\text{Me}$ by a similar procedure; the product contained mainly 2,4- and 2,6-isomers, m. 33-53°, yield 197%.

3
1-BW(BW)
1-JA+CNB)
1-JA+(MAY)

Distr: 4E3d

✓ Nitration of toluene in the presence of chromic acid. T. Urbański, A. Szmęczek, S. Głozak, and T. Świerkot (Wojskowa Akad. Tech., Warsaw). *Bull. acad. polon. sci.,*

Sér. sci., Chim., géol. et géograph. 8, 13-14 (1960) (in English).

—Toluene (I) treated with HNO_3 + H_2SO_4 + Cr_2O_3 yielded 2,4-dinitrobenzaldehyde (II) and (or) *p*-nitrobenzoic acid (III) or 2,4-dinitrobenzoic acid (IV). I (10 g.) was added dropwise at 25° with vigorous stirring to 21.7 g. Cr_2O_3 in 1.50 g. H_2SO_4 (d. 1.84) and 25 g. HNO_3 (d. 1.51), the green mixt. left 1.5 hrs., poured into 1 l. cold water, the cryst. ppt. filtered off, washed with cold water, dissolved in 200 ml. Et_2O , shaken with 200 ml. 10% aq. Na_2CO_3 , and crystd. from alc. after evapn. of ether to give 6.5 g. II. To 10 g. I was added dropwise at const. temp. 25° a mixt. of 30 g. HNO_3 (d. 1.40), 90 g. H_2SO_4 (d. 1.84), and 8 g. H_2O simultaneously with 43.2 g. Cr_2O_3 in small portions, the red and finally green mixt. stirred 2 hrs. at 25°, poured into 1 l. cold water, the ppt. treated as before, and 3.99 g. III pptd. by acidifying the aq. layer with dil. H_2SO_4 . To 30 g. HNO_3 (d. 1.50), 90 g. H_2SO_4 (d. 1.84), and 8 g. water was added 14.9 g. *p*-nitrotoluene and 43.2 g. Cr_2O_3 at const. temp. 50°, the brown and finally green mixt. stirred at 50° 2 hrs., and treated as before to yield 14.9 g. IV from the aq. layer.

J. Stecki

Distr: 4E3d¹

Nitration of toluene in the presence of manganese dioxide.
T. Urbanski, A. Semczuk, and H. Kawka (Wojsk. Akad.
Tech., Warsaw, Poland): *Bull. acad. polon. sci., Ser. sci.,
Chim., geol. et geograph.* 8, 15-16(1960)(in English); cf.
preceding abstr.—2,4-Dinitrobenzaldehyde (I) was the
main product of the reaction studied. To 10 g. toluene was
slowly added with vigorous stirring a mixt. of 21 g. HNO₃
(d. 1.41) and 160 g. anhyd. H₂SO₄ simultaneously with 18.8
g. fresh MnO₂, at 30-40°, the light yellow mixt. stirred 30
min., poured into cold water, and 6.4 g. crude I extd. with
Et₂O. It contained traces of mononitrotoluenes. Simi-
larly, 9.1 g. I was obtained at 70° from 5 g. p-nitrotoluene,
45 g. H₂SO₄ (d. 1.84), 39 g. HNO₃ (d. 1.51), and 9.4 g.
MnO₂; at 30-40° this reaction gave 21% I and 7% p-nitro-
benzoic acid with oxalic acid and CO₂ by-products. The
reaction with KMnO₄ replacing MnO₂ was extremely violent.

J-Stecki

5
1-9-91/16

11
H₂O

Distr: 4E3d
 Nitration of toluene in the presence of vanadium pentoxide. T. Urbanski, A. Semak, and H. Kawka (Wojskowa Akad. Tech., Warsaw) *Bull. acad. polon. sci., Ser. sci., Chim., geol. et geograph.* 8, 17(1960)(in English); cf. preceding abstr.—A procedure similar to that described in the preceding abstr. gave at 30–40° 30% 2,4-dinitrobenzaldehyde with 7% *p*-nitrobenzoic acid with 6 g. V_2O_5 , 14 g. HNO_3 (d. 1.41), and 90 g. H_2SO_4 (d. 1.84). At 60–70° the yield of aldehyde was lower; at 70–90° tarry products were obtained.

5
 1-019 (1/8)

11
 7/2/61
 JH

SECRET, ANTONI

Distr: 4E3d

✓ A modernized two-stage method for preparing trotyl.
Antoni Senećuk and Edward Żytyński. *Biul. Wollera*
Arad. Tech. im. Jaroslawa Dabrowskiego 9, 73-83 (1980)
(English summary).—In the 1st stage, toluene (I) was
nitrated (CA 54, 20923d) to dinitrotoluene (II) (75.5% 2,4-
and 20.6% 2,6-isomer; yield >90%), m. 36-65° under the
following conditions (range exraind. given): I/HNO₃ molar
ratio 1:32 (1:23 to 1:48), HNO₃ concn. 98% (75 to 98%),
temp. 60° (-30 to 90°), time 180 min. (100 to 300 min.),
and medium CHCl₃ (CCl₄, CH₂Cl₂, and C₂H₅Cl); 100-50%
of the HNO₃ was used. At a HNO₃ concn. of less than 80%,
mononitrotoluene (58.2% o- and 37.9% p-isomer) was ob-
tained consistently. In the 2nd stage, a 98% HNO₃ - 15%
oleum (53:53) mixt. was added dropwise (2 hrs.) to 50 g.
II dissolved in 50 g. 15% oleum, and the soln. was heated
1.5 hr. at 115°; trotyl (83%), filtered off after 12 hrs.,
washed (H₂O), and dried, m. 78° (80° after 1 hr.). Na sul-
fite purification yielded 93-4% product at 30-40°. Methods
of trotyl prepn. were reviewed and analysis of nitration
products was described. 13 references. A. Scatena

CHK

1A3

7
1-6042
1-343(N0)

URBANSKI, T.; SEMENCZUK, A.; GORSKI, W.

Thermal analysis of the system: 1-chloro-2,4-dinitrobenzene-picryl chloride. Bul chim PAN 8 no.9:487-488 '60.

1. Technical Military College, Warsaw. Presented by T. Urbanski.

(Thermochemistry) (Chlorodinitrobenzene)
(Acid chlorides)

URBANSKI, T.; SEMENCZUK, A.; GORSKI, W.

The action of ultrasonic waves on nitration. Bul chim PAN 9 no.7:
467-469 '61.

1. Military Technical College, Warsaw. Presented by T. Urbanski.

KHRISANOVA, A.I.; SOBOLEVA, G.N.; SEMENDEYEV, B.V.

Thermographic analysis in the study of the coals of the
oxidation zone. Khim.i tekhn. topl.i masel 5 no. 4:33-39
Ap '60. (MIRA 13:6)

1. Institut goryuchikh iskopayemykh im. G.M.Khrzhizhanovskogo
AN SSSR.

(Coal--Thermal properties) (Oxidation)

SEMENDYAEV, A. F.

Rationalization of slurry preparation from chalk and clay. L. S. Kogan, V. A. Olevskii, and A. F. Semendyaev. Tsement 14, No. 4, 5-12(1948).--Cement slurries were prepd. from chalk and clay by treating the raw materials in a closed cycle comprising a mixer and a gyratory screen. From the mixer the chalk-clay mixt. with a moisture content of 41-2% passed a 1 mm. screen mesh. Clinker fired from this slurry was satisfactory. The use of screens in place of mills effected a considerable saving in power. Where needed, mills can be used only for the screen oversize.

M. Hoseh

AREF'YEV, V.A.; VOLKONSKIY, B.V.; SEMENDYAYEV, A.F.

Main trends in the improvement of the technology of cement
manufacture. TSement 28 no.2:5-6 Mr-Ap '62. (MIRA 15:8)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
i nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti.
(Cement plants)

SEMENDYAYEV, A.F.

Expand the use of cement in the national economy. TSement 29
no.5:1-3 S-0 '63. (MIRA 16:11)

1. Gosudarstvennyy vsesoyuznyy institut po proyektirovaniyu
i nauchno-issledovatel'skim rabotam tsementnoy promyshlen-
nosti.

SEMENDYAYEV, K. A.

SEMENDYAEV, K. A.

"An Application of the Integrator," Prikl. Matemat.
i Mekh., 4, No. 1, 1940.

SEMENDYAYEV, K. A.

O nakhozhdenii sobstvennykh znacheniy i invariantnykh mnogootbraziy matrits posredstvom iteratsiy. Prikl. matem. i mekh., 3 (1943), 193-221.

SO: Mathematics in the USSR, 1917-1947

edited by Kurosh, A. G.,

Markushevich, A. I.,

Rashevskiy, P. K.

Moscow-Leningrad, 1948

SEMENDYAYEV, K. A.

Segal, B. I., and Semendyaev, K. A. Pyatizhnye matematicheskie tablitsy. [Five-Place Mathematical Tables]. Izdat. Akad. Nauk SSSR, Moscow-Leningrad, 1950. 464 pp. (1 plate)

This book contains the following tables: $\sin x$, $\cos x$, $\tan x$, e^x , e^{-x} , $\sinh x$, $\cosh x$, $\tanh x$, $1/x$ for $x=0(.001)10$ (the degree-minute-second equivalent is also listed); the exact value of $(1000x)^2$ and $(1000x)^3$ (or $x=0(.001)$); and at least 5 significant digits of x^2 and x^3 for $x=1(.001)10$; $\operatorname{erf} x$ for $x=0(.001)2.5(.01)$; together with some further values for x between 3 and 5; $\Gamma(x)$ for $x=1(.001)2.5$ and n^* for $k=4(1)10$ and $n=0(1)50$; 6S; indefinite elliptic integrals of the first and second kinds, $F(\varphi, \theta)$ and $E(\varphi, \theta)$, for $\varphi=0^\circ(1^\circ)90^\circ$, $\theta=5^\circ(5^\circ)90^\circ$ together with the equivalent value of k^2 ($k=\sin \theta$); the complete elliptic integrals $K(\theta)=F(\frac{1}{2}\pi, \theta)$, $E(\theta)=E(\frac{1}{2}\pi, \theta)$ and $\exp(-\pi K(\frac{1}{2}\pi-\theta)/K(\theta))$ for $\theta=0^\circ(20^\circ)90^\circ$; the Bessel functions $J_0(x)$, J_1 , Y_0 , Y_1 , I_0 , I_1 , K_0 , K_1 for $x=0(.01)10$; a table of useful constants (e , π , ϕ , $\sqrt{2}$, etc.) and a table of decimal equivalents of fractions with denominators up to 20. An insert containing proportional parts for interpolation is included. A list of series and asymptotic expansions of (or related to) the tabulated functions and some directions for use of the tables are also included. As the title indicates, at least 5 significant digits are given. It should prove a useful table for anyone wishing a table of the most common functions.

J. V. Wehausen (Providence, R. I.)

Source: Mathematical Reviews.

Vol. 12 No. 1

SEMENDYAEV, K. A.

Schetnaia lineika; kratkoe rukovodstvo. 2. izd. Moskva, Gostekhizdat,
1950. 44 p. diagrs.

(The slide rule; a concise manual.)

DLC: QA73.S46 1950

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953

SEVENDYANOV, V. [A.]

"The New Mathematical Journal" Uspekhi Matemat Nauk. 1, No. 2, 1946.

Report U-1493, 27 Sep 1951

1. SEMENDYAYEV, K. A.
2. USSR (600)
4. Physics and Mathematics
7. Solution of Numerical Algebraic and Transcendental Equations,
V. L. Levkovich. (Minsk, Acad Sci Byeloruss SSR Press, 1951).
Reviewed by K. A. Semendyayev, Sov. Kniga, No. 9, 1952.

9. Report U-3081, 16 Jan 1953, Unclassified.

SEMENDYAYEV, K.A.

BRONSHTEYN, I.N.; SEMENDYAYEV, K.A.

[Mathematics reference book for engineers and students of
higher technical schools] Spravochnik po matematike; dlia
inzhenerov i uchashchikhsia vtuzov. Izd.3., perer. Moskva,
Gos. izd-vo tekhniko-teoret. lit-ry, 1953. 608 p. (MLRA 7:3)
(Mathematics--Handbooks, manuals, etc.)

SIWENDYAYEV, K. A.

156 Schetnaya Lineyka. Kratkoye rukovodstvo. Per. S. 6-Go Izd. Minsk, Uchpedgiz, Bssr, 1954. 48 S. S Ill. 20SM. 3,000 Ek.-. 35K.-Na Belorus. Yaz.--(54.51367) 513.5

30: Knizhnaya, Letopis, Vol. 1, 1955

SEMENDYAYEV, K.A.; RYBKIN, A.Z., redaktor; AKHILAMOV, S.N., tekhnicheskii
redaktor.

[Slide rule; a concise manual] Schetnaia lineika; kratkoe rukovodstvo.
Izd. 7-e, stereotip. Moskva, Gos. izd-vo tekhniko-teoreticheskoi lit-
ry, 1955. 44p. (MIRA 9:5)

(Slide rule)

SALVADORI, Mario, G.; LOKUTSIYEVSKIY, O.V.[translator]; ~~SEMENDYAYEV,~~
K.A., redaktor; AGRANOVICH, M.S., redaktor; SHAPOVALOV, V.I.,
tehnicheskiiy redaktor.

[Numerical methods in engineering. Translated from the English]
Chislennyye metody v tekhnike. Perevod s angliiskogo O.V.Loku-
tsievskogo. Pod red. K.A.Semendiaeva. Moskva, Izd-vo inostran-
noi lit-ry, 1955. 247 p. (MLRA 9:4)
(Numerical calculations) (Engineering--Tables, calculations, etc.)

SEMIANDYAYEV, K. A.

BRONSHTEYN, I. N.; SEMIANDYAYEV, K. A.; RYVKIN, A. Z., redaktor; AKHILANOV, S. N.,
tekhnicheskii redaktor

[Mathematics manual for engineers and university students] Spra-
vochnik po matematike; dlia inzhenerov i uchashchikhsia vtuzov.
Izd. 5-oe, stereotip. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry,
1955. 608 p. (MIRA 9:3)
(Mathematics--Handbooks, manuals, etc.)

SEMENDYAYEV, K.A.

SEGAL, B.I., professor (Moscow)

Mathematics manuals ("Elementary mathematics manual." M. I.A. Vygodskii; "Manual on mathematics for engineers and teachers in schools of higher technical education." I.N. Bronshtein, K.A. Semendiaev. Reviewed by B.I. Segal). Priroda 44 no. 8:123-126 Aug '55. (MLRA 8:10) (Mathematics) (Vygodskii, Mark Iakovlevich) (Bronshtein, I.N.) (Semendiaev, K.A.)

SEMENDYAYEV, K-A

16(1)

PHASE I BOOK EXPLOITATION

SOV/2441

Segal, Bentsion Izrailevich and Konstantin Adol'fovich Sem-
endyayev

Pyatiznachnyye matematicheskiye tablitsy (Five-Place Mathemat-
ical Tables) 2d ed. Moscow, Fizmatgiz, 1959. 463 p. 15,000
copies printed.

Ed.: I. N. Bronshteyn; Tech. Ed.: S. S. Gavrillov.

PURPOSE: This book is intended for scientists, computing per-
sonnel, engineers, laboratory workers, constructors, and designers
performing calculations in various mathematical fields and
concerned with the technical application of mathematics.

COVERAGE: The main part of the book consists of carefully ad-
justed tables of elementary functions (trigonometric, expo-
nential, hyperbolic, reciprocals, squares and cubes).
Also included in the book are certain special functions
(probability integral, gamma function, elliptic integrals,
Bessel functions) and other tables. No personalities are
mentioned. No references are given.

Card 1/3

BRONSHTEYN, Il'ya Nikolayevich; SEMENDYAYEV, Konstantin Adol'fovich;
RYVKIN, A.Z., red.; AKHIEZER, S.N., tekhn.red.

[Mathematics manual for engineers and students in engineering
schools] Spravochnik po matematike dlia inzhenerov i uchashchikh-
sia fiziko-matem.lit-ry, 1959. 608 p. (MIRA 12:12)
(Mathematics--Handbooks, manuals, etc.)

REF[✓]
SEMENDYEV, K. A., GODUNOV, S. K., ZHUKOV, A. I. (Moscow)

"Numerical Methods in the Analysis of One-Dimensional Unsteady Problems of Gas Dynamics."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

ZEL'DOVICH, Yakov Borisovich, akademik. Prinimali uchastiye: MANUILOV, V.L.; SEMENDYAYEV, K.A., red.. NORKIN, S.B., red.; TUMARKINA, N.A., tekhn.red.

[Higher mathematics for beginners and its applications in physics] Vysshaya matematika dlia nachinaushchikh i ee pri-lozheniia k fizike. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 460 p. (MIRA 13:7)

(Mathematics)

SEMENDYAYEV, K. A.

S/020/60/133/02/16/068
B019/B060

AUTHORS: Zaydel', R. M., Semendyayev, K. A.

TITLE: Limit Solutions to the Nonlinear Equation of the
Parabolic Type 14

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 2,
pp. 311-314

TEXT: By (1) the authors write down the nonlinear parabolic equation $(1/a) \cdot \partial F / \partial t = F \Delta F + (1/k)(\nabla F)^2$, which has the form of (2) in the one-dimensional case. The solution of the wave type of equation (1) is investigated by proceeding from the form (4) of the solution. The condition of equilibrium in the wave front and the accelerated motion of the latter are discussed, and the course of the integral curves of equation (6) is discussed on the strength of Fig. 1. Several values are compiled in Table 1 for the desired exponent α (4) and, finally, the construction of solutions is discussed. There are 3 figures, 1 table, and 5 Soviet references.

Card 1/2

SEMENDIAYEV, K.A.

"Symposium on the numerical treatment of ordinary differential equations, integral, and integrodifferential equations."
Reviewed by K.A. Semendiaev. Zhur. vych. mat. i mat. fiz.
1 no.6:1146-1147 N-D '61. (MIRA 16:7)

SEGAL, Bentsion Izrailevich; SEMENDYAYEV, Konstantin Adol'fovich;
RIVKIN, A.Z., red.; YERMAKOV, Ye.A., tekhn. red.

[Five-place mathematical tables] Piatiznachnye matematicheskie
tablitsy. Izd. 3. Moskva, Fizmatgiz, 1962. 463 p.

(MIRA 15:12)

(Mathematics--Tables, etc.)

33287

S/208/62/002/001/001/016
D299/D303

16.6500 1103, 1327

AUTHORS: Godunov, S.K., and Semendyayev, K.A. (Moscow)

TITLE: Difference methods for the numerical solution of
gasdynamic problems

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy
fiziki, v. 2, no. 1, 1962, 3 - 14

TEXT: Various numerical methods and their range of applicability are considered and some unsolved problems are discussed. In case of moving singularities, it is convenient to use moving grids, connected with the singularities; thereby it becomes unnecessary to artificially introduce independent variables. For one-dimensional problems. Lagrangian coordinate-grids are more suitable in this respect (than Eulerian). Moving grids are used in one-dimensional problems involving contact discontinuities and in unsteady-flow problems past cylindrical bodies. A particular type of moving grid (for one dimensional problems), is the one formed by 2 families of characteristics. However, the method of characteristics is not satisfac-

Card 1/5

33287

S/208/62/002/001/001/016

D299/D303

Difference methods for the ...

tory, because it does not adequately take into account the smoothness of the sought-for functions. The authors developed a computational method, whereby the grid of the 3 families of characteristics is associated with the straight lines $t = \text{const}$. This method however, was not further elaborated as it cannot be extended to the general equations of state. With regard to the various difference-schemes, by which the gasdynamics equations are approximated, the optimization problem (i.e. how to obtain results of the desired degree of accuracy with the least amount of computational work) has been quite insufficiently studied in technical literature. Further, the criteria are discussed for the choice of variables. As an example, a difference scheme is considered for calculating a centered expansion wave in the (above-mentioned) grid, i.e. the lines $t = \text{const}$. and the family of characteristics issuing from the wave center. The possibilities inherent in the use of electronic computers for solving gasdynamics problems are considered, as well as methods of continued calculation. These methods involve the introduction of "viscosity" in the differential equations. It is assumed that the equation of state is convex (i.e. the Bethe-Weyl condition is sa-

Card 2/5

33287

S/208/62/002/001/001/016
D299/D303

Difference methods for the ...

tisfied). In this case it can be assumed that a unique generalized solution exists, although this is not proved. Thereby the main difficulty is the possible accumulation of singularities. The character of such an accumulation was neither studied by purely mathematical methods, nor by applied methods. In this connection, the possible continuation of the solution (through the singularities which were smoothed), deserves particular attention. Further, the convergence of the series solution is considered. The authors made an experimental calculation of expansion waves in a local second-order of accuracy scheme. Thereby it was found that the orders of weak- and of strong convergence coincided. It is noted that for the further development of computational methods based on the use of the generalized solution, it is necessary to first render more exact the latter concept. It is also noted that expansion waves are not dealt with in literature concerned with methods of continued calculation, although difference methods yield particularly inadequate convergence for expansion waves. The above considerations regarding the one-dimensional problem, fully apply to multi-dimensional problems, too. The numerical methods should be based on the concept

Card 3/5

33287

S/208/62/002/001/001/016

D299/D303

Difference methods for the ...

of general solution, but should at the same time make allowance for the rough structure of the solution. With respect to the choice of the grids and variables, A.A. Dorodnitsyn's method of integral relationships is recommended (Ref. 11: O.M. Belotserkovskiy, Raschet obtekaniya krugovogo tsilindra s otoshedshey udarnoy volnoy. Sb. "Vychisl. matem.", M., Izd-vo AS SSSR, 1959, no. 3, 149-185). This method yields a high order of accuracy, using 2-3 computation points only. Further, the advantages and disadvantages of explicit- and implicit difference schemes are considered. The relation between the steady- and unsteady flow-problems is discussed. (Above, unsteady problems were considered). A flexible method is proposed, whereby the suitable variables can be selected (in the difference scheme), irrespective of the equations of state. This is achieved by using a separate (general) subprogram for the equations of state. In conclusion it is noted that basic theoretical problems have yet to be cleared up, in particular those related to the concept of solving the relevant equations, the classes of functions met in the solutions, and the approximate methods of representing these functions on grids. The opinions expressed in this

Card 4/5

33297

S/208/62/002/001/001/016

D299/I303

Difference methods for the ...

article were formed during numerous discussions in which mathematicians including Keldysh, Gel'fand, Babenko, D'yachenko took part. There are 16 references: 13 Soviet-bloc and 3 non-Soviet-bloc, (including 2 translations). The reference to the English-language publication reads as follows: J. Neumann, R. Richtmeyer, A method for the numerical calculations of hydro-dynamic shocks. J. Appl. Phys., 1950, 21, no. 3, 232 - 237.

SUBMITTED: October 19, 1961

X

Card 5/5

ZEL'DOVICH, Yakov Borisovich, akademik; SEMENDYAYEV, K.A., red.; NORKIN, S.B.,
red.; KOLESNIKOVA, A.P., tekhn. red.

[Higher mathematics for beginners and its applications to
physics] Vysshaya matematika dlia nachinaishchikh i ee pri-
lozhenia k fizike. Izd.2., perer. i dop. Moskva, Fizmatgiz,
1963. 559 p. (MIRA 16:4)

(Mathematics)

SEMENDIAYEV, K.A.

"Introduction to computer mathematics" by E.Stiefel. Reviewed
by K.A.Semendiaev. Zhur.vych.mat.i mat.fiz. 3 no.2:410 Mr-Apr
'63. (MIRA 16:4)
(Algorithms) (Mathematics) (Stiefel, E.)

SEMENDYAYEV, K.A.

"Numerical analysis" by N.Macon. Reviewed by K.A.Semendiaev.
Zhur. vych. mat. i mat. fiz. 3 no.5:971-972 S-0 '63.(MIRA 16:11)

SEMENDYAYEV, K.A.

"Methods of mathematical analysis and computation" by J.G.Herriot.
Reviewed by K.A.Semendiaev. Zhur. vych. mat. i mat.fiz. 4 no.1:
206 Ja-F '64. (MIRA 17:6)

ZEL'DOVICH, Yakov Borisovich, akademik; SEMENDYAYEVA, K.A., red.;
NORKIN, S.B., red.

[Higher mathematics for beginners and its applications to
physics] Vysshaya matematika dlia nachinaiushchikh i ee
prilozheniia k fizike. Moskva, Nauka, 1965. 575 p.
(MIRA 18:9)

NIKOLAYEV, S.S., inzh.; SEDOVA, M.F., inzh.; BUSHTEI, I.I., inzh.
SEMENDYAYEV, V.P., inzh.; YEREMENKO, V.V., kand.tekhn.nauk;
VRUBLEVSKIY, L.Ye., inzh.

Using clay shale for manufacturing keramzit. Stroi. mat.
7 no.7:34-37 J1 '61. (MIRA 14:7)
(Shale) (Aggregates (Building materials))

SEMENDYAYEVA, M.Ye.; KHAN-DEN-KHO [Han chon-ho]

Changes in the sense of taste in Botkin's disease. Vrach.delo no.11:
1155-1158 N '56. (MIRA 10:3)

1. Kafedra obshchey i gosital'noy terapii (zaveduyushchiy -
deystvitel'nyy chlen AMN SSSR, professor Ye.M.Tareyev) Sanitarno-
gigiyenicheskogo fakul'teta Pervogo moskovskogo meditsinskogo
instituta

(HEPATITIS, INFECTIOUS) (TASTE)

SEMENDYAYEVA, M. E.

Xanthomatous cirrhosis of the liver. Sov. med. 20 no.4:
46-48 Ap '56. (MLRA 9:8)

1. Iz obshchey i gosptal'noy terapevticheskoy kliniki
(direktor deystvitel'nyy chlen Akademii meditsinskikh nauk
SSSR professor Ye.M. Tareyev) sanitarno-gigiyenicheskogo
fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta
imeni I. M. Sechenova.

(LIPOIDOSIS,

xanthomatous liver cirrhosis (Rus))

(LIVER CIRRHOSIS, etiology and pathogenesis,
xanthomatosis (Rus))

SEMENDYAYEVA, M.Ye. (Moskva)

Gastric secretion in Botkin's disease. Klin.med. 35 no.8:109-116
Ag '57. (MIRA 10:11)

1. Iz obshchey i gospital'noy terapevticheskoy kliniki (dir. -
deystvitel'nyy chlen AMN SSSR prof. Ye.M.Tarayev) sanitarno-gigiyeni-
cheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo insti-
tuta imeni I.M.Sechenova.

(HEPATITIS, INFECTIOUS, physiol.

gastric secretion)

(GASTRIC JUICE

secretion in infect.hepatitis)

SE'ENDYAYEVA, M.Ye., Can Med Sci -- (diss) "Gastric
secretion in Botkin's disease." Mos, 1958, 13 pp
(First Mos Order of Lenin Med Inst im I.M. Sechenov)
200 copies (KL, 23-58, 113)

- 152 -

SEMENDYAYEVA, M.Ye., kand.med.nauk

Treatment of Botkin's disease; survey of the literature. Sov.
med. 24 no. 2:10-19 F '60. (MIRA 14:2)

1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye.M.
Tareyeva.

(HEPATITIS, INFECTIOUS)

SURA, V.V.; SEMENDYAYEVA, M.Ye.; POTEKAYEVA, M.A.

Role of shock and collapse in the development of a hepatorenal syndrome. Sov.med. 25 no.2:36-40 F '61.. (MIRA 14:3)

1. Iz'obshchey i gospital'noy terapevticheskoy kliniki (zav. - deystvitel'nyy chlen AMN SSSR prof. Ye.M.Tareyev) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni N.M.Sechenova, laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye.M.Tareyeva i 24-y Moskovskoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach V.P.Uspenskiy).
(SHOCK) (LIVER—DISEASES) (KIDNEYS—DISEASES)

NAZARETYAN, Ye.L.; SEMENDYAYEVA, M.Ye.

Scientific session on the problem of infectious hepatitis (Botkin's
disease). Sov.med. 25 no.4:149-154 Ap '61. (MIRA 14:6)
(HEPATITIS, INFECTIOUS)

SEMENDYAYEVA, M.Ye., kand.med.nauk

Cholangiolytic hepatitis. Sov.med. 25 no.5:52-60 My '61.

(MIRA 14:6)

(LIVER—DISEASIS)

SEMENDYAYEVA, M. Ye.

Transaminase activity in liver diseases. Terap. arkh. 33 no. 11: 31-39 '61. (MIRA 15:5)

1. Iz laboratorii, rukovodimoy deystvitel'nyy chlenom AMN SSSR
prof. Ye. M. Tareyevym.
(TRANSAMINASE) (LIVER--DISEASES)

SEMENDYAYEVA, M. Ye.; MUKHINA, O. N.

Hormone therapy in Botkin's disease. Sov.med. no.1:21-31 Ja '62.

(MIRA 15.4)

1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye. M. Tareyeva
i klinicheskoy infektsionnoy bol'nitsy No.1 (glavnyy vrach N. M. Zaleskver).
(HEPATITIS, INFECTIOUS). (HORMONE THERAPY)

NAZARETYAN, Ye.L.; SEMENDYAYEVA, M.Ye.

Out-of-town scientific session devoted to problems of intestinal
infections [held] in Alma-Ata. Sov.med. 26 no.7:147-152 J1 '62.
(MIRA 15:11)

(INTESTINES---DISEASES)

TAREYEV, Ye.M.; NAZARETYAN, Ye.L.; SEMENDYAYEVA, M.Ye.; TAREYEVA, I.Ye.

Current problems of the clinical aspects of epidemic hepatitis. Vest. AMN SSSR 18 no.6:12-49 '63. (MIRA 17:1)

SEMENDYAYEVA, M.Ye.; BOGDANOVA, N.V.

Neuropsychic changes in hormone therapy of Botkin's disease.
Sovet. med. 27 no.6:61-65 Je'63 (MIRA 17:2)

1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye.M.
Tareyeva i Klinicheskoy infektsionnoy bol'nitsy No.7 (glavnyy
vrach N.G. Zaleskver).

BARINSKIY, I. F.; SEMENDYAYEVA, M. Ye.; TAREYEVA, I. Ye.

The 15th Scientific Session of the D.I. Ivanovskii Institute
of Virology of the Academy of Medical Sciences of the U.S.S.R.
dedicated to the problem of infectious hepatitis. Terap. arkh.
35 no. 5:114-118 My '63. (MIRA 16:12)

TAREYEV, Ye.M.; SEMENDYAYEVA, M.Ye.

Review of A.F. Eliuger and M.P. Sinel'nikov's book "Intravital
morphological study of the liver". Ter. arkh. 35 no.7:116-118
Jl'63 (MIRA 17:1)

SEMENDYAYEVA, M.Ye.; TAREYEVA, I.Ye.

Second Conference on Clinical Biochemistry in Infectious
Diseases. Sov. med. 27 no.1:154-156 Ja '64. (MIRA 17:12)

SEMENDYAYEVA, M.Ye.; MUKHINA, O.N.; BCGDANOVA, N.V.

Recurrence of Botkin's disease after hormonal therapy. Vop.med.
virus. no.9:248-254 '64. (MIRA 18:4)

SEMENDYAYEVA, M.Ye.; GUSEVA, T.M.; PONOMAREVA, O.A.; LAPKINA, G.V.;
MIKIRTOMOV, S.M.

Activity of arginase in the blood serum and points of the liver
during Botkin's epidemic hepatitis. Vop.med.virus. no.9:275-281
'64. (MIRA 18:4)

1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye.M.
Tareyeva.

SEMENDYAYEVA, M.Ye.; ALEKBEROVA, Z.S.; POLOMAROVA, O.A.

Significance of lipoic (thioctic) acid in the compound treatment of Botkin's disease. Sov. med. 27 no.2:114-117 F '64.
(MIRA 17-10)

1. Laboratoriya deystvitel'nogo chlena AMN SSSR prof. Ye.M. Tareyeva, Moskva.

SEMENDYAYEVA, M.Ye.; YATSYSHINA, T.A.

Significance of puncture biopsy of the liver in evaluating the
outcome of epidemic hepatitis. Sov. med. 28 no.5:80-83 My '65.

(MIRA 18:5)

1. Laboratoriya deystvitel'nogo chlena AMN SSSR prof. Ye.M. Tareyeva
i Klinika lechebnogo pitaniya (zav. - prof. I.S.Savoshchenko)
Instituta pitaniya (dir. - chlen-Korrespondent AMN SSSR prof.
A.A.Pokrovskiy) AMN SSSR, Moskva.

BEZPROZVANNYY, B.K.; SHUMKINA, O.B.; SEMENDYAYEVA, M.Ye. (Moskva)

So-called balloon dystrophy of liver cells in epidemic hepatitis.
Arkh. pat. 27 no.1:67-74 '65. (MIRA 18:4)

1. Laboratoriya patomorfologii (ispolnyayushchiy obyazannosti
zaveduyushchego - kand. med. nauk B.K.Bezprozvanny) Instituta
virusologii imeni D.I.Ivanovskogo (dir. - prof. V.M.Zhdanov)
AMN SSSR i laboratoriya deystvitel'nogo chlen AMN SSSR prof.
Ye.M.Tareyeva.

APROSINA, Z.G., kand. med. nauk; AFANAS'YEVA, K.A., kand. med. nauk;
AKHREK-AKHREMOVICH, R.M., prof.; BLYUGER, A.F., doktor med.
nauk; BONDAR', Z.A., prof.; VASILENKO, V.Kh., prof.; KIKODZE,
I.A., kand. med. nauk; LINDENBRATEN, L.D., prof.; LOGINOV,
A.S., kand. med. nauk; MANSUROV, Kf.Kh., prof.; NAZARETYAN,
Ye.L., kand. med. nauk; NOGALLER, A.M., prof.; FLOTNIKOV,
N.N., prof.; SEMENDYAYEVA, M.Ye., kand. med. nauk; TAREYEV,
Ye.M., prof.; TAREYEV, I.Ye., kand. med. nauk;
TER-GRIGOROVA, Ye.N., prof.; CHERNYSHEVA, Ye.V., kand. med.
nauk; SHVARTS, L.S., prof.; MYASNIKOV, A.L., prof., zam. otv.
red.; BOGOSLAVSKIY, V.A., red.; SEMENDYAYEVA, M.Ye., red.

[Multivolume manual on internal diseases] Mnogotomnoe rukovodstvo po vnutrennim bolezniyam. Moskva, Meditsina. Vol.5. 1965. 724 p. (MIRA 18:9)

1. Deystvitel'nyy chlen AMN SSSR (for Tareyev, Ye.M., Vasilenko, Myasnikov).

ATAKHANOV, E.I.; MANSUROV, Kh.Kh.; SEMENDYAZOVA, M.Ye.

Symposium on the enzymological diagnosis of diseases of the liver.
Sov. med. 28 no.9:148-150 S '65. (MIRA 18:9)

RASSONSKAYA, I.S.; SEMENDYAYEVA, N.K.

Phase transitions of calcium and sodium sulfates and their double salts. Zhur.neorg.khim. 6 no.8: 27+5-1753 Ag '61. (MIRA 14:8)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova
AN SSSR.

(Sodium sulfate) (Calcium sulfate)

ACC NR: AT6034433

(A)

SOURCE CODE: UR/0000/66/000/000/0024/0027

AUTHOR: Larikov, L. N.; Zashchuk, Ye. E.; Kutikhina, Zh. Ya.; Semenenko, N. M.

ORG: none

TITLE: Mechanism of softening of refractory metals

SOURCE: AN SSSR. Institut metallurgii. Svoystva i primeneniye zharoprochnykh spлавov (Properties and application of heat resistant alloys). Moscow, Izd-vo Nauka, 1966, 24-27

TOPIC TAGS: metal softening, refractory metal, electron radiation

ABSTRACT: The article gives the results of a study of the kinetics and mechanism of the softening of deformed single crystals of rhenium, tungsten, and molybdenum. The single crystals, obtained by the electron radiation method, were deformed by rolling along the slip planes. Rhenium and molybdenum were rolled at room temperature, and tungsten at a temperature of approximately 200°C. Rhenium and tungsten were annealed at temperatures of $2100 \pm 20^\circ$ and $1600 \pm 10^\circ$ (W), and molybdenum at $1070 \pm 5^\circ$ C. The softening of the crystals during annealing was estimated by the change in the microhardness. Based on the experimental data, a figure shows the dependence of the microhardness of rhenium, tungsten and molybdenum on the duration of isothermal annealing. The difference in the behavior of rhenium and the other refractory metals

Card 1/2

ACC NR: AT6034433

cannot be connected with differences in the melting points, since the melting point of rhenium is intermediate between the melting points of molybdenum and tungsten. The mechanism of the softening of deformed crystals is determined to a significant degree by the type of their crystal lattice. In the softening of metals with a densely packed lattice, recrystallization plays a large role. Metals with a body-centered cubic lattice are weakened to a large degree before recrystallization and, under particular recrystallization conditions do not recrystallize at all. It is shown that impurities and alloying elements exert an influence not only on the rate, but also on the role of the different physical processes in the softening of metals and alloys. Orig. art. has: 2 figures.

SUB CODE: 11/ SUBM DATE: 10Jun66/ ORIG REF: 012/ OTH REF: 002

Card 2/2

1. SEMENDYAYEVA, T. K.

2. USSR (600)

4. Rape Oil

7. Problem of refining rape oil. Masl.zhir.prom. 17 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.